AUTHOR AND SUBJECT-TITLE INDEX FOR VOLUME II

PAGE

Action of isopropyl N-phenyl carbamate under various conditions..... 169
Ahlgren, Gilbert H. 27
Aldrich, Richard J. 27, 202, 262
Baskin, A David 280
Benzoic acid derivatives, failure of light activated riboflavin to counteract inhibition 202
Bibliography of weed investigations for; April, May, and June, 1952..... 68
July, August, September, 1952 84
October, November, and December, 1952 159
January, February, and March, 1953 205
April, May, and June, 1953 305
Blouch, Roger 119
Book review 303
Botanical composition of Ladino clover-orchard grass pasture as affected by 2,4–D 105
Brown, D. A. 295
Brown, J. W. 288
Bruns, V. F. 138
Canada thistle seed germination as affected by fresh water storage..... 138
Carbamates and other chemicals, relation of structural configuration to herbicidal properties and phytotoxicity 43
Carriers, influence upon inhibitory effectiveness of 2,4–D 33
C^{14} Carbonyl labeled 3–(parachlorophenyl)–1, 1–dimethylurea synthesized.... 135
C^{14}, use in leaching studies with isopropyl N–phenyl carbamate 24
Chamblee, D. S. 105
Chemicals for crabgrass control in turf 27
Chloro-IPC; distribution in soil 300
influence of soil type on selective action 119
selective mechanism theory 155
CMU; effect on nutgrass 196
synthesis with C^{14} carbonyl label 135
Comparison of five chemicals for crabgrass control in turf 27
Connecticut River Valley, Mass., weed populations as related to cultivated crops 125
Connell, C. R. 288
Cotton seeds, germinating, as affected by CIPC and DNBP 178
Crabgrass control in turf with chemicals 27
Cruzado, H. J. 196
Cultivated crops as related to weed populations in Connecticut River Valley 125
Cultural control of wild oats 295
Cyperus rotundus L., effects of CMU on 196
Dean, E. W. 288
DeRigo, H. T..... 169
Dinitro ortho secondary butyl phenol, alkanolamine salt, effects on germinating cotton seeds 178
Distribution of CIPC in soil 300
Effect of CMU on nutgrass (*Cyperus rotundus* L.) 196
Effect of fresh water storage on germination of weed seeds..... 138
Effect of maleic hydrazide on soil bacteria and other microorganisms..... 190
Effect of isopropyl N–(3–chlorophenyl) carbamate and an alkanolamine salt of dinitro ortho secondary butyl phenol on germinating cotton seeds.... 178
Effect of sodium 2,4–dichlorophenoxyethyl sulfate on growth and yield of strawberries 262
Effect of 2,4–D; on growth of young sugar cane 148
on yield and botanical composition of Ladino clover-orchard grass pasture 105
Elwell, Harry M. 302
Engel, Ralph E. 27
English, A. R. 190

PAGE

Failure of light activated riboflavin to counteract growth inhibition of benzoic acid derivatives 202
Florida, control of para grass in Everglade region 15
Freed, V. H. 24
Fults, Jess 119
Gangstad, Edward O. 113
Germinating cotton seeds as affected by CIPC and DNBP 178
Germination of weed seeds as affected by fresh water storage 138
Gertsch, Milton E. 33
Great plains region of North America, wild oats problem 292
Growth of young sugar cane, effect of 2,4–D 148
Growth regulants, volatility determinations by response of tomato plants.... 254
Growth regulators of plants—halogenated phenyl alkyl ethers..... 288
Halogenated phenyl alkyl ethers as plant growth regulators 288
Hamilon, Robert H. 202
Hamner, C. L. 271
Hauser, Ellis W. 105
Havis, John R. 148
Herbicidal properties of carbamates and other chemicals, relation to structural configuration 43
Herbicidal tests for control of para grass on ditch banks in Florida..... 15
Herbicides for control of weeds in sansevieria 113
Hitchcock, A. E. 254
Hoffman, Otto L. 66
Howard, W. H. 288
Hughes, J. H. 178
Influence of carriers upon inhibitory effectiveness of 2,4–D sprays..... 33
Influence of soil type on selective action of chloro-IPC and sodium TCA.. 119
Inhibition of growth by benzoic acid derivatives, failure of light activated riboflavin to counteract 202
Inhibitory effectiveness of 2,4–D as influenced by carriers 33
Isleib, Donald R. 262
Isopropyl N–(3–chlorophenyl) carbamate, effects on germinating cotton seed.. 178
Isopropyl N–phenyl carbamate; action under various conditions..... 169
leaching rate studies using C^{14} 24
Joyner, J. Frank 113
Kaufman, Peter B. 223
Kirkpatrick, Henry, Jr. 254
Ladino clover-orchard grass pasture, effect of 2,4–D on yield and botanical composition 105
Leaching rate of isopropyl N–phenyl carbamate, studies using C^{14}..... 24
Logan, Albert V. 24, 135
Loustalot, A. J. 196
Maleic hydrazide; effect on soil bacteria and other microorganisms..... 190
for quackgrass control 66
McLane, S. R. 288
Methods for determining relative volatility of 2,4–D and other growth regulants by response of tomato plants 254
Microorganisms as affected by maleic hydrazide 190
Minarik, C. E. 288
Morning glory seed germination as affected by fresh water storage..... 138
Morphological responses of rice to 2,4–D 223
Muzik, T. J. 196
Native grass production increased by herbicidal control of oak brush..... 302
New herbicide controlled oak brush and resulted in increased native grass production 302
Newman, A. S. 169
Nickell, L. G. 190
Nutgrass, effects of CMU 196
Oak brush controlled by new herbicide 302
Occurrence and problem of wild oats in the great plains of North America.. 292
Odell, Norman R. 24, 135

PAGE

Orchard grass-Ladino clover, effect of 2,4–D on yield and botanical composition 105
Para grass control on ditch banks in Florida Everglades 15
Pasture, Ladino clover-orchard grass, effect of 2,4–D on yield and botanical composition 105
Persistence of sodium trichloroacetate in different soil types 271
Phytotoxicity of carbamates and other chemicals, relation to structural configuration 43
Population of weeds as related to cultivated crops in Connecticut River Valley 125
Poverty weed seed germination as affected by fresh water storage..... 138
Pray, Blaine O. 300
Preliminary studies on use of herbicides for control of weeds in sansevieria.. 113
Quackgrass control with maleic hydrazide 66
Rai, G. S. 271
Rasmussen, L. W. 138
Relation of structural configuration to herbicidal properties and phytotoxicity of several carbamates and other chemicals 43
Responses of tomato plants to vapors of 2,4–D or 2,4,5–T formulations at different temperatures 280
Riboflavin, light activated, failure to counteract growth inhibition of benzoic acid derivatives 202
Rice, morphological responses to 2,4–D 223
Ries, S. K. 155
Robocker, W. C. 303
Russian knapweed seed germination as affected by fresh water storage..... 138
Sansevieria, control of weeds with herbicides in 113
Seale, Charles C. 113
Selective action of chloro-IPC and sodium TCA as influenced by soil type.. 119
Selective mechanism theory for chloro-IPC 155
Shaw, W. C. 43, 105, 178
Soil bacteria as affected by maleic hydrazide 190
Soil, distribution of CIPC in 300
Soil type; influence on selective action of chloro-IPC and sodium TCA..... 119
persistence of sodium trichloroacetate 271
Speir, William H. 15
Stephens, John C. 15
Storage in fresh water, effects on germination of weed seeds 138
Strawberry growth and yield as affected by sodium 2,4–dichlorophenoxyethyl sulfate 262
Structural configuration of carbamates and other chemicals, relation to herbicidal properties and phytotoxicity 43
Sugar cane, effect of 2,4–D on growth 148
Swanson, C. R. 43, 178
Sylwester, E. P. 66
Synthesis of C^{14} carbonyl labeled 3–(parachlorophenyl)–1, 1–dimethylurea.. 135
TCA, sodium, influence of soil type on selective action 119
Temperature, influence on responses of tomato plants to vapors of 2,4–D or 2,4,5–T 280
Theory for selective mechanism of chloro-IPC 155
3–(parachlorophenyl)–1, 1–dimethylurea synthesis with C^{14} carbonyl label.. 135
Tomato plants, response to vapors of 2,4–D or 2,4,5–T 280
Tomato plants used to determine volatility of 2,4–D esters and other growth regulants 254
Trichloroacetate, sodium, persistence in soil 271
Turf, control of crabgrass with chemicals 27
2,4–D; effect on growth of young sugar cane 148
effect on yield and botanical composition of Ladino clover-orchard grass pasture 105
inhibitory effectiveness as influenced by carriers 33
morphological effects on rice 223
2,4–D esters, volatility determinations by response of tomato plants..... 254
2,4–D vapors, tomato plant response at different temperatures..... 280

PAGE
2,4–dichlorophenoxyethyl sulfate, sodium, effect on growth and yield of strawberries 262
2,4,5–T vapors, tomato plant response at different temperatures 280
Use of C^{14} in studying leaching rate of isopropyl N–phenyl carbamate 24
Vengris, Jonas 125
Volatility determinations of 2,4–D esters and other growth regulants by response of tomato plants 254
Walker, E. A. 280
Weed control in sansevieria with herbicides 113
Weed populations as related to cultivated crops in Connecticut River Valley 125
Weed seeds, effects of fresh water storage on germination 138
White top seed germination as affected by fresh water storage 138
Wild oats; in great plains of North America 292
progress in cultural control 295
Witman, Eugene D. 300
Wood, H. E. 292
Woodhouse, W. W., Jr. 105
Yield of Ladino clover-orchard grass pasture as affected by 2,4–D 105
Zimmerman, P. W. 254